Vol. 37. No. 57.

CAMBRIDGE, MASS., MONDAY, OCTOBER 29, 1917

Price Three Cents

CARDINAL AND GREY

Technology Harriers Defeat Crimson Cross Country Men in Race Held on Belmont Course Saturday

CAPTAIN HERZOG SECOND

Technology defated Harvard in a closely contested cross-country race held over the Belmont course last Saturday afternoon by the score of 26-31. Fifteen contestants, represented each institution in the meet, the first five men to finish for either side scori ig. Captain Herzog, 19. finished second losing out to Captain Lewis of Harvard by a margin of 25 2-5 seconds. The Technology harriers, however, made up for this loss of first place by capturing, in addition to the two points won by Captain Herzog, the third, sixth, seventh and eighth tallies, while Harvard had to be content with the first, fourth, fifth, tenth and eleventh positions,

Technology entered the contest with an exceptic fally well balanced team as is shown by the fact that, although Captain Herzog finished second, he was followed across the tape one fifth of a second later by McCarten, '19. Carpenter, 20, placed seventh for the Institute. Since definite arrangements for the Dartmouth cross-country race have been completed, the personnel of the team to run for the Cardinal and Grey has been chosen from the results of Saturday's meet. The men to run are Captain Herzog, McCarten, Dorr, Carpenter, Owens, Hanley, who finished ninth, and Stone. another freshman who finished thirteenth.

ELECTRICALS VISIT SIMPLEX WIRE AND CABLE

Plant Inspected in Detail by Electrical Engineers

Fifteen members of the student's branch of A I. E. E. made a trip to the was again commissioned major. He re-Simplex Wire & Cable Co. last Thurs- signed this commission, however, in orinspect the plant and der to serve in the trenches as a lieuthe methods employed there in the tenant. There he saw nine months of manufacture of commercial copper wire. active service as a "raid officer," taking In order to facilitate the inspection, the part in a number of actions, the most party was divided into three groups and each group was taken in charge by an employee who knew the plant thorough-

The room where the crude rubber imported from South America is first taken was inspected, and then the section grenade wound. After serving several where huge rolling machines break it months as an instructor in an English up and roll it, adding compounds at the same time. From here the rubber is taken to vacuum driers and dried thoroughly. The Company does not manufacture the copper wire, but does its own tinning. After being tinned, the wire is then wrapper in rubber, the rubber being forced around it by means of dies. Cotton covering is next spun on by a special machine, and as a finishing process, the wire is run through an asbestos alumni, and their friends are invited. compound which serves to insulate it.

In the manufacture of large cables a copper core is first wound together in spiral fashion, from a large number of small wires, which have previously been wrapped in oiled cambric or paper tape by a special machine. The core is then encased in a lead covering. This is accomplished by running molten lead into a hydraulic die machine, and then running the wire through the machine. As the lead is under a pressure of approximately nine hundrea tons it is forced out in thin sheets around the wire.

Another trip to the plant will be made today, the party leaving the lobby at 1.45 o'clock.

Tomorrow night at 7.30 o'clock a meeting will be held in 10-250 in conjunction with the Aero Club and the Mechanical Engineering Society, at which Lieutenant Morize will deliver an address on "Engineering in Modern Warfare" illustrated with slides. It is expected that a large number will attend so that it has been decided to admit only those who have their standard dues receipt.

350 Men Hear About Show —Proceeds Go To Paris

and the audience was entertained by unchanged. the songs of "Charlie" Parsons '19, and "Rusty" "Walt" Frazier '18.

of the Faculty, this activity will be continued as in other years.

The proceeds from the Show were formerly used for the maintenance of athletics, but the money from this ar's Show will be turned over to Van R. Lansingh, Director of the Technology Club of Paris. This is because the Student Tax is expected to take care of the athletic fund, but if the upperclass-

Smith College and to either Malden, the others, and they are to be congrau-Somerville or Providence. Everybody lated on the fine manner in which they who has anything to do with the Show

FIRST POW-WOW SOON

"Trench Raids"

The first Walker Memorial "Pow-

Wow" will be held on Sunday, Novem-

ber 11, at 4.00 P. M. Captain Donald McRae will speak on "Trench Raids."

Captain McRae served in the U.S. Army

in the Philippines, after which he spent

three years at West Point. He studied

and left in 1916 to enter the Canadian

at the Institute for a year and a half,

Army. Here he worked up to the po-

sition of major. Longing for active ser-

vice, he left the Canadian Army and

important of which was the attack on

Vimy Ridge. He was awarded the

French Legion of Honor Cross and was

recommended five times for the British

Military Cross, which he received in

London while recovering from a hand-

training camp, Captain McRae returned

to America and entered the National

Army. He is now an instructor at

Walker Memorial each Sunday after-

noon. Refreshments will be served, and

either a speaker or a well-known musi-

cal organization will entertain those

who come. All Technology students,

very few penalties being called against

either side. Concord made a touchdown

in the first quarter, the ball being

rushed over from the three-yard line,

after having received it through a

fumble. Fumbles cost the Sophomores

the game, as they had the ball within

the Concord ten-yard line three times,

then lost it through costly fumbles.

Skinner and Penger, both new men on

the team this year, played well for

1920, and with a little more practice

will develop into excellent backfield

men. The line-up was as follows: Mac-

donald, r. e.; Casey, r. t.; Buckley, r. g.;

Abercrombie, c.; Davis, l. g.; Tatters-

field, l. t.; Abbott, l. e.; Dana, q. b.;

Bray, r. h.; Pender l. h.; Skinner, fb.

Subs: Taylor, Button, Barker, Krantz,

Sommersby, Harrop.

DEFEATED AT CONCORD

1920 FOOTBALL TEAM

'Pow-Wows" will be held in the

Plattsburg with the rank of captain.

The Kommers Smoker was held last | takes these trips. The Show will be Thursday night in the Walker Memo- held during Junior week, and will probrial building with an attendance of over ably be given in the Boston Opera 350 men. The meeting was addressed by House. Less money will be spent on several old Tech Show men, who dis-scenery and costumes this year, but the cussed the different phases of the Show, Show will otherwise remain practically

"Rusty" White '16, Stage Manager, gave a few words of advice on the at-General Manager G. B. Hutchings '18, titude a man should have when he opened the meeting by explaining the comes out for this activity. "The men purpose of the Kommers Smoker and must come out in a mob; each man the plans for the coming year. The must be a mob in himself. If you get smoker has, for the past two years, kicked out of one branch, try another taken the place of the former Kommers The Tech Show is to Technology what Dinner and has been a great success, the Harvard football team is to Har-There was some talk of giving up the vard because it is the largest represen-Show this year, but upon the advice tative activity of the college. The Show is worth all the money you spend on it all the exams you flunk on account of it, and every extra year you spend at the Institute on account of it.

When the men come out for the first time, they are divided up into groups representing the different parts of the Show. These groups are trained separately until they know their parts, and then they rehearse together. After permen do not pay up. the Show stands fection is reached, costumes are given ready to make good the deficit.

The leading costumes are profes-Each year two trips are taken, to sionally made, but the "co-eds" make

(Continued on page 4)

FIELD DAY MASS MEETING WILL BE HELD THURSDAY

The Field Day mass meeting will be Army Officer Will Speak On held in Smith Hall on Thursday at 1.00 P. M. The object of this meeting is to create enthusiasm for Field Day and to prepare for Tech Night. The Institute songs will be practiced with the aid of a piano, and the cheers will be explained and practiced. The committee in charge want as many men as possilble to attend the meeting, in order that a good showing may be made on Tech Night.

BUSINESS COMPETITION

All men chasing advertisements or entered the British Army, in which he competing for positions in the business department of The Tech bring in their assignment slips today between 3.00-

ADVERTISING MANAGER

FRESHMEN DEFEATED IN GAME AT MANCHESTER

The freshman football team was defeated Saturday in the first game of the season by Manchester High, 47-0. As the score shows the freshmen were completely outclassed, although they outweighed their opponents. Manchester relied on trick plays and delayed passes for most of their gains. Hurley and Wood played a good game in the backfield for the freshmen, but received little support from the line. The feature of the game was the playing of Kenyon, Manchester's fullback, who made several spectacular runs through the freshmen. The defeat was no disgrace, however, as Manchester is one of the fastest school teams in New England. The lineup for the freshmen was: Barker, r. e.; Beatty, r. t.; Dites, r. g.; Merrill, c.; Morrison, l. g.; Kittredge, l. t.; Wood, l. e.; Hurley, q. b.; Chaffin, Northrop, r. h.; Murphey, Jensen, l. h.; Waterman,

The Sophomores were defeated Saturday by the Concord High School by Blood, f. b. the close score of 6.0. From the start both teams played good, clean football,

A Special Field Day issue, which will take the place of the regular Thursday paper, will be published on Friday, November 2. It will con-

Special Field Day Issue

1. A message from President Maclaurin to the undergraduates. 2. A complete list of the men on

each team, 3. Statements of the managers

concerning their teams. 4. Pictures of last year's winning

5. Table showing previous records. 6. Field Day History.

UNION ESTABLISHES PARIS HEADQUARTERS Branch also Founded in London, and Plans For Places

of Recuperation in French Alps or on the Riviera are Under Way

AMERICAN UNIVERSITY

LANSINGH '98 ASSISTANT DIRECTOR

THE American University Union in Europe into which the Technology Club of Paris is merging its interests established itself at its headquarters in the Royal Palace Hotel on the Place du Theatre and the Rue de Richelieu, Paris, Saturday evening, October 20. The Hotel has been rented for one year by the Union, which is supported by fifty of the most representative colleges and Universities and is designated "to meet the needs of American University and College men who are in Europe for military or other services in the cause of the allies.'

The trustees of the Union are as folows: John H. Finley, president of the University of the State of New York; Frank J. Goodnow, president of John Hopkins University; Edward K. Graham, president of the University of North Carolina; John Sherman Hoyt, of Harvard; H. B. Hutchins, president of the University of Michigan; Dwight W. Morrow, of New York city; Roger Pierce, secretary of Harvard Corpor-ation; Phelps Stokes, secretary of Yale University; Henry B. Thompson, trustee of Princeton.

Forty of the eighty bedrooms were was held which was attended by the fessor Nettleton, of Yale, Director; Mr. Van Renss laer Lansingh, '98 of the In-Haxen Hyde, of Harvard; Professor Van strikingly the points of his speech. Dyke, of Princeton, and Professor Viba message expressing his hearty approval of the work.

The complete list of the Advisory Council is as follows; Edward Tuck, an alumnus of Dartmouth, chairman; James Robertson Barbour, of Yale; Robert Woods Bliss, of Harvard; Lawrence Slade, of Williams College; Persifor Frazer Gibson, of Princeton; Robert Arrowsmith, of Columbia, and Alphouse David Weil, of Cornell.

The Union in Europe has resulted from the culmination of two movements, one in Paris and the other in this country. The first factor in its development was the authorization of the Yale Bureau in Paris last May. The founding of the Yale Bureau was not, at that time, intended for anything more than rendezvous for Yale men. However, with the establishment of the American University Alumni Association in France but one month later and the formation of a Technology Club by Mr. Lansingh in July, the leaders of these three movements saw the wisdom of consolidation, and after a thorough discussion of the matter both here and in France, the American University Union in Europe was given birth.

The specific purposes of the Union are perhaps best made known by quoting directly from its constitution. Stating its purpose it reads:

"1. To provide at moderate cost a home with the privileges of a simple club for American college men and their friends passing through Paris or on furlough; the privileges to include an information bureau, writing and newspaper room, library, dining room, bed rooms, baths, social features, opportunities for physical recreation, entertainments, medical advice, etc.

"2. To provide a headquarters for the various bureaus already established or to be established in France by representative universities, colleges and technical schools.

(Continued on page 4)

Member of Royal Flying Corps Tells War Experiences

An interested gathering of the Aero Club was addressed Thursday night, October 25, by Lieutenant-Colonel M. Rees, V. C., M. C. of the Royal Flying Corps, who spoke on aviation as he experienced it at the front. The gathering took place at the Engineers' Club, 2 occupied the first night and visitors Commonwealth Avenue, whose guests representing thirty different American the members of the Aero Club were for colleges registered. An informal dinner the evening. Lieutenant-Colonel Rees outlined the history and development of Executive Committee comprised of Pro- aviation as a fighting device and narrated many thrilling events that he had witnessed or taken part in. He showed stitute, Assistant Director; Mr. James a number of slides which brought out

He began by describing the uncertain bert of the University of Michigan; status of the flying corps at the bealso by members of the Advisory Comginning of the war. There were in all, mittee of which Mr. Edward Tuck, of he said, three squadrons consisting of Dartmouth, is chairman. General Persh- thirty-six planes in service. On paper, ing, who is one of the honorary patrons the strength of the corps amounted to of the Union, was officially represented one hundred and one machines, but of by Brigadier General William H. Allaire, these only fifty could fly. Now, there Ambassador Sharp had planned to be are well over three thousand airplanes present but was prevented from doing so of all kinds. In the early days an aviby an attack of slight illness and sent ator was expected and required to do anything in the flying line, but at the present time the service has become so finely specialized that a man performs only one particular kind of duty.

Today, every airplane carries at leastone of the latest types of Lewis or-Davis machine guns. These guns are mounted in various parts of the body. such as on the top of the radiator or projecting through it, firing through the propeller by means of a synchronizing device connected with the motor in such a way that a bullet cannot pass out of the gun while the propeller blade is in front of it. Some are placed on a revolving mounting which turns around the edge of the observer's cockpit, permitting him to fire in any direction. Still others are fastened on top of the upper plane so that the observer or pilot may stand up and fire in that position.

The student fiver is now required to take two months of book work as the first part of his training. After he has successfully passed this course he is sent to some aerodrome where he proceeds to gain the practical flying knowledge that leads to his aviator's commission. He is then assigned to the particular branch of the service that his work would seem to indicate him as being best adapted for

Figures show that it costs \$200 an (Continued on page 4)

CALENDAR

Monday, October 29, 1917 1.45 P. M.-E. E. Society Trip. Main Lobby.

5.30 P. M.—Tech Business Competition. The Tech Office. 4.00 P. M.-Japanese Students' Recep-

tion. Emma Rogers Room, Tuesday, October 30, 1917 1.00 P. M.-Meeting of Sophomore Candidates for Technique. Technique Office.

7.30P. M.-E. E. Society Meeting. Room 10-250.



Entered as second-class matter, September 16, 1911, at the Postoffice at Bos--n. Mass., under the act of Congress of March 3, 1879.

Published twice a week during the college year by students of the Massachuwetts Institute of Technology.

MANAGING BOARD

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IN CHARGE THIS ISSUE

A. Kruse '20..... Assistant Night Editor

MONDAY, OCTOBER 29, 1917.

THE SHOW SMOKER

HE Kommers' Smoker, held last Thursday evening, was successful to a degree never before attained on such an occasion. The enthusiasm there displayed came as a revelation, not only to the managers and advisors of the Show, but to members of the undergraduate body who thought that the traditional "pep" of Tech nology men had completely expired. It now seems certain thatproviding the spirit of this meeting is maintained throughout the year,—the performance to be staged Junior Week will be one of the best ever presentd. This thought, however, suggests the question: Will this spirit live in its present desirable animated form, or will it become again lethargic? Live interest will insure complete success for the Show:—listlessness can only spell failure.

HAVE YOUR PICTURE TAKEN EARLY

HE attention of the Senior Class cannot be too strongly drawn to the opening of sittings for the Portfolio. The likelihood of many Seniors leaving before the time limit for appointments is reached, makes it more important than ever before that men desiring to appear on the pages of Technique should sign up early and keep their appointments. The difficulties connected with getting out such a publication as our official year-book are plenty enough without being further intensified by lack of co-operation by the Seniors. Last year, several men were disappointed because they were left out through their own failure to live up to the conditions laid down by the Technique Board. Take this lesson to heart Seniors and do not procrastinate.

A GREAT NEED FULFILLED

E are glad to see that plans are afoot to change part of the E are glad to see that plans are afoot to change part of the C3 "Caf" into a lounging room for students. Although it was a patriotic and proper thing to give up the Walker Memorial to be used in Government service, the Institute owes it to the student body to furnish some room to take the place of the old "Union." year the conditions were different. The undergraduates were willing to wait, looking forward to this year's occupation of the Memorial. Now, there seems little chance of the students getting installed in their building for several years, and a substitute becomes necessary. Freshmen must have some opportunity to get acquainted with each other and with upperclassmen in order that they may become properly assimilated into Technology life, or the undergraduate organization will become completely disorganized.

We would suggest that the new room be fitted up with the old class and Field Day banners and Show posters and made to look as much like the old "Union" as possible. We are certain that providing a room of this sort will go far toward relieving the general deadness which has been characteristic of undergraduate activity life this year.

ME Advance Battalion, if we may credit the opinions of men who are taking the work, seems to be failing too a large extent in fulfilling its announced purpose to instruct men in the the duties of officers. It is true that the personnel is changed about so much that each man has an opportunity to take charge of different units, but it is asserted that the changes come so rapidly that no one knows just what he is supposed to do. Imperfectly instructed acting officers take charge of imperfectly disciplined units and the result is usually confusion. Might not the men keep definite positions under the same officers until such time as the company has absorbed the fundamental information in regard to details and discipline?

Another fault which should soon be remedied is that of lack of standardized methods. Some officers require their men to step off in certain movements in one number of counts, while others insist that another number of counts be used. With men being shiftted around from one officer to another, there cannot help but be misuderstandings.

A third fault was evidenced at the exercises last Wednesday when the lack of confidence on the part of some of the officers who took charge bespoke insufficient preparation of the details to be presented.

There is no doubt that allowances must be made for the many difficulties under which the Military Department is working, but a standardization of methods, and a definite program worked out thoroughly at the start, will do much to prevent fatal impairment of the morale of the Battalion.

COMMUNICATION To the Editor of The Tech,

In your editorial of October 18 the suggestion is made that students do not patronize the Walker Memorial lunch rooms because of friction with the aviators. This supposition does little credit to the student body, which, as far as I can see, is glad to turn over the Memorial to the Government. It is the general idea that the aviators are compelled to eat at the Memorial. This would serve to arouse sympathy rather than envy, for they would not even have the opportunity to eat at any of the Boston restaurants, which the students patronize rather than pay the excessive charges and submit to the poor service of the Memorial. The writer has found out that including carfare and loss of time, it is more satisfactory to eat in Boston than at the Memorial funch rooms. These are supposed to be run without profit. What is the trouble? is the management inefficient, or is there some other reason for the inability of the Memorial to compete with other eating places:

At Machias this past summer. Mr. Merrill fed the students at the rate of about \$3.50 per man per week. The food was good, nutritious, and there was plenty of it. If anyone can satisfy his appetite at the Walker now for \$8.00 a week. I would say that he had a mighty small appetite.

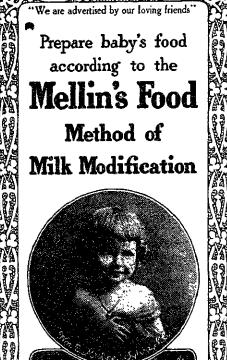
This is a matter that ought to be looked into at once. Something is radically wrong somewhere. It is absolutely impossible to get a satisfactory meal at the Memorial for a reasonable amount, and there is no other decent place in the immediate vicinity. That means that the fellows in the Dorms, who wish any sort of food for their money, have to go down-town. This is very inconvenient and causes too great a loss of time.

Very truly yours, HAROLD J. DAUBE '19.

MONTHLY TO HOLD BUSINESS COMPETITION

A meeting of competitors for positions on the staff and management of the Technology Monthly will be held at 1.05 o'clock, on Monday, October 29, in the offices of the Monthly on the second floor of the Activities building on Massachusetts Avenue. The competition is open to members of the three lower classes, and, since it will run only a short time, it is essential that candidates report and sign up immediately. Owing to the fact that many of the older men have enlisted, there is great opportunity for advancement.

There will be a meeting of the Board of Directors of the Monthly on Monday afternoon at 5.00 o'clek.





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LOST—Tuesday, Oct. 17, on Tech Field, a gold penknife marked D. C. S. Finder please notify D. C. Sanford, Jr., 44 Fenway, Boston. B.B. 3515.

Nothing will be more appreciated this Christmas by your relatives and friends than a good photograph. Mention TECH and receive special rates.

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Stop, Look, and Listen, For the "Love O' Mike"



Although at present over half the house has been sold out, there are quite a few good seats still left in the or chestra and first balcony of the Wilbur Theatre, for Tech Night. Monday and ance. Tuesday from one to two o'clock will be the last chance to obtain tickets in the main lobby of the Institute, and all Field Day teams must buy their tickets on Monday. The second balcony has

OFFICIAL FROM THE

M. I. T. Committee for

National Service

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WASHINGTON BUREAU

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JOHN M. DeBELL '17 in Charge

A direct means of communication

between the Technology and the Na-

tional Government. If there is any-

thing you wish to know in Washing-

ton, write to the Technology Bureau.

Stone & Webster to Build Big Ordnance

Depot in France

Technology men will be interested to

know that the firm of Stone & Web-

ster, of Boston, have been given the

contract for the construction of a tre-

been reserved for the freshmen.

The committee in charge of the Show arrangements has made provision for several interesting features which will give a little local color to the perform-

The play abounds in good music and pretty girls. The cast includes six of the most attractive girls now on the musical comedy stage. The comedian George Hassell, is extremely funny. He is the whole show, appearing as a movie I body will thoroughly enjoy it.

mendous Ordnance Depot and Arsenal of Issue and Repair in France on a cost

plus ten per cent basis. The total cost

including equipment is estimated at not

The contract was to have been placed

in the hands of French firms, but the

official French commission which was

ecently in this country did not endorse

he proposal on the ground that every

man employed in the work would mean

the taking of so much support from

and they are now awaiting transporta-

tion arrangements. All raw materials

The United States is to have the ex-

clusive use of a certain French seaport, and in addition our government has

obtained a lease hold of an extensive

tract of adjacent territory for which a

nominal rental is paid. During the term

of the lease, this territory will be as

completely American as is the city of

Army Wants Aero Repair Men

This office has had a number of in-

quiries from men who are desirous of

going to France in either the flying or

non-flying divisions of the Signal Corps.

For those who are unable to qualify

for the flying section, the following ar-

ticle taken from the Army & Navy

Journal should be interesting and in-

The Aeronautical Office of the United

States Army at 104 Broad Street, New

York City, has made an appeal for re-

cruits to go to France immediately as

privates in the Aviation Section of the

Signal Corps to maintain and repair air-

planes. Major General George O. Squier.

Chief Signal Officer, U. S. A., has di-

rected that a recruiting campaign begin

at once, with the object of enlisting a

total of 100,000 men who will be em-

ployed chiefly at the hangars of Ameri-

can aviators in keeping flying machines

in shape. The men called for in this an-

peal are not to act as fivers, but will remain in barracks at the aviation fields

which are occupied by Americans in

France. Those who are first to enlist

go to France very soon. Carpenters,

electricians, mechanics, men familiar

with gas engines, and others who know

month, with an increase for foreign ser-

are particularly good for those who en-

Mechanical Draftsmen Needed

ington for mechanical draftsmen hav-

ing various degrees of experience. This

office could place a number at very short

notice in both army and navy depart-

ments. Positions open would be for

civilians only and would not carry com-

There is an urgent demand in Wash-

list at once.

missions.

machines, will be sent from this

Ten thousand Americans have been enlisted for this work of construction

less than \$100,000,000.

the front.

Washington,

structive:

fan who attempts robbery and blackmail according to standards laid down by popular actors. There are several very clever dancing acts.

The music is fine and the singing good. Leone Morgan, the clever lead, puts over her lines and songs very successfully. Lord Kildare represents the typical Englishman - brave and blase. The show is excellent throughout and the committee feels sure the student

ALUMNI NOTES

Class of 1899

Burt L. Richards '99, has been appointed to the post of assistant deputy commissioner of the State Board of Health of New York. Mr. Richards, who was head of the bacteriological laboratory of the Boston Board of Health abut ten years ago, engaged in commercial bacteriology in Urbana and in Boston since that time. He is now taking an important place in one of the strongest health organizations in the country. The position was one offered by the civil service, and he headed a long list of competitors who took the examinations.

The body of Richard C. Harrison '99, of Braintree, a mining engineer who had been spending the summer here, was found today in the harbor channel, fastened to the anchor line of a dory. The medical examiner decided that Mr. Harrison had committed suicide by plunging overboard from the boat after binding the anchor to his body.

SHOW BUSINESS COMPETITION STARTS TOMORROW AFTERNOON

The first meeting of candidates for the positions of Assistant Business Managers of the Tech Show will start tomorrow at 5.15 when Sophomores desiring to compete will meet Manager Dennison 19, in the Show office,

The competition will continue until the Show is given, when two men will be selected to act as assistants. One of these men will be appointed Business Manager of next year's Show, and the other Treasurer.

All competitors will start on an equal footing, the men who held positions on the Management last year having no advantage over new candidates.

ONE HUNDRED MEN ATTEND DORM SMOKER

as privates in the Aviation Section will The first Dormitory Smoker of the year was held in the old Caf Saturday night with about one hundred of the dormitory men and their friends attendhow to use their hands are asked to ing. The program, as arranged by R. enlist at once. If they can pass the Rimbach '18, proved satisfactory. J. H. physical examination they will be accepted at any age between eighteen and Bayle '21, boxed two fast rounds with forty-five years. The pay is \$30 a J. J. Collins '21, and R. L. Turner '20, had a bout with W. H. Leoneori '20. Other feature events included apple vice, and the prospect of advancement ducking, and the lifting of six men by to better paid non-commissioned ranks M. Pierce '18. Music was furnished by the Dormitory Banjo Club of nine pieces, accompanied by A. J. Guiaranovitch '18, on the piano.

> STUDENT TAX COLLECTORS All men who have been collecting the

student tax should turn over to O. D. Burton, Treasurer of the Institute Committee, all money, receipt books and stubs, on Tuesday. October 30, between four and five o'clock at the office of The

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GOOD FORM SHOWN BY BOTH TUG-O'-WAR TEAMS

Practice Hard in Last Few Days-Soph Team Selected

The coaches of both tug-o'-war teams have been making extra efforts in the past few days to put the men in final shape for the Field Day struggle. The well-attended practices and the enthusiasm of both teams insure an exciting contest next Friday.

Last Saturday the teams had about two hours of steady work and, according to the managers, are to be highly commended for their showing. The number of men who turned out for each class was large, and competition for positions keen.

The Sophomore team has the advantage of more weight, but the freshmen make up their loss by putting more "pep" in the work. The freshman team has not been picked, but will probably be announced next Tuesday. Seats for all those who are successful have been this, look at "Rusty" White. A man reserved for the Tech Night show, and the management wants to see every man "on the rope" at each of the last four practice periods.

The provisional line-up for the Sophomore team follows:—Bond, Bowditch, Brokman, A. A. Brown, P. Brown, Bugbee, Carter. Federhen, Gokey, Grover. Harris, Hemeon, Howell, Jensen, Kellar, Leander, Leoneori, Massey, Matthews. McGuire, A. Patterson, Pierce, Pike, Ryer, Syner, Wason, L. B. Wilson, manager, Mesmer; counter, Turner. These men must report on the remaining afternoons, and are to buy their theatre tickets before 1.30 o'clock today, according to previous instructions. The men who have not been selected are urgently requested by the manager to be on the field with those who have been picked, as the above team is only provisional and changes may be made.

SOPHOMORE COMPETITIONS FOR TECHNIQUE BUSINESS STAFF

Tomorrow at 1.00 there will be a meeting of Sophomore candidates for positions on the Business Staff of next year's Technique. The meeting will be held in the Technique Office on the second floor of the Activities Building opposite the Co-op. For those who cannot attend at this time an opportunity will be offered to learn the details of the competition Wednesday at 1.00 in the Technique Office.

the end of this competition; and competitors who survive the first cut will be considered assistants to the Technique 1919 Board.

Although at the time the Technique Electoral Committee meets, a competitor may be sure of a position on the Business Staff of the annual, he nevertheless may be a candidate for the position of Editor-in-Chief or any of the editor ial- positions.

Since a large part of the work of the Business Staff consists in obtaining advertisements for the year book, the selection of the candidates will be based largely upon their success in selling advertising space.

KOMMERS SMOKER

(Continued from page 1)

take hold of this end of the Show. Crities from some of the largest theatrical companies are invited to attend a dress rehearsal, and their opinion of the Show is always most satisfactory.

The first surprise of the evening was the "Vampire" number of last year's programme by "Walt" Frazier '18. This song made a big hit and gave the men present an idea of what the Show is like. A few selections were then played by Harrington '18, and Schultz '19, of last year's banjo quartet.

General Manager Ralph Fletcher '16, gave the history of the Show. In 1898 the first Tech Show was given in the form of a minstrel show. Its purpose was to promote good fellowship as well as to raise money. The problem of raising money has always been a large one, but now that it is out of the way, the Show will develop rapidly.

The practical benefits derived from the Show were set forth by Mr. William Duncan, the coach. "The assurance, selfcontrol and confidence a man gets from acting is enormous, and regardless of the part you take, these benefits are sure to be derived. As an example of with self-confidence and a cast iron nerve like that could run a livery stable in Venice and get away with it."

The orchestra is made up entirely of Institute man, and Mr. Howard, the orchestra leader, pledges his best efforts to make it a success this year

"Charlie" Parsons '19, entertained the audience by his acting and singing, and Collins '18, played a few selections on the piano which were very much appre-

The competitions in lyrics, books, music, scenery, and for the cast will be the same this year as usual. Very few books were handed in on October 5 when the first call was made. Another chance has been given, and the author of Tech Show 1918 will probably be announced before the next smoker. It is the idea that is wanted rather than the details, and the management would like to have about twenty ideas, developed by a few lines, handed in before the week is up.

The Show is divided into various departments: the managing, production, business, publicity, treasury, and two stage departments. At the head of each of these is a manager, and under him are two to five freshman and Sophomore assistants. There will be a call for assistant publicity managers within the next two weeks.

The business department has to get out a souvenir programme for the Show. Two assistant managers are chosen from the Sophomore and three from the freshman class. The trials for Sopho-The Business Manager, Treasurer, and mores will start tomorrow at 5.15 Associate Business Managers of next o'clock, and the freshman trials will year's Technique will be appointed at start a week from tomorrow at the same time. All contestants are to report at the Tech Show office.

ADDITIONAL RELAY TRIALS TO BE RUN THIS AFTERNOON

Trials were held for Field Day relay teams last Friday, but the twelfth regular and first and second substitute positions are still open on both the freshman and Sophomore squads. The following men will run at 1.05 o'clock today in order to determine the personnel of these six places:—Addicks, Barnes Knight, Maconi and Shea, 1920; Bradford, Clark, Gile, Hathaway, Kirkpatrick. Leach, and Toole, 1921.

UNIVERSITY UNION

(Continued from page 1)

"3. To cooperate with these bureaus when established, and in their absence to aid institutions, parents or friends in securing information about college men in all forms of wr service, reporting on casualities, visiting the sick and wounded, giving advice, serving as a means of communication with them,

The members of the Executive Committee first planned to secure a hotel in the residential district of Paris, but owing to the war time difficulties of transportation it was thought better to place the headquarters of the union nearer the center of Paris. As a result the Royal Palace Hotel, which is at the head of the Avenue de l'Opera and near the Louvre and the Tuileries Gardens, was selected. It is also within a block of the Palais Royal subway station.

Board and lodging at the Union are made just as cheap as abnormal ex-penses will permit. The restaurant provides luncheon for four and a half francs and dinner for five and a half francs, in addition to an exceedingly reasonable "petit dejeuner." Members on furlough can secure "pension" at from fifteen francs and upward per day with everything included. A room for a single night costs from six francs up; a room with bath, ten francs. In view of the enormous cost of supplies in Paris, where anthracite coal sells for seventy dollars a ton, the tariff is indeed moderate, especially since the franc at present is only rated at seventeen and one half cents.

Owing to the large numbers of American College men going through London at the present time, the Union has established a branch there. Through the courtesy of the Farmers Loan and Trust Company of New York, rooms in their building at 16 Pall Mall East, S. W. have been given over to this purpose. It is also planned by the Union to establish shortly a place of recuperation in either the French Alps or on the Riviera.

AERO CLUB

(Continued from page 1)

hour for the training of an aviator only for the time he is in the air. This estimate includes wrecked and damaged machines, of which there are plenty. and fuel and oil consumed in flight. The total cost amounts to \$20,000.

The young aviator has quite a few choices, for the flying service is divided into two major and quite a number of minor branches. The major divisions are the home defense corps and the foreign service. The home defense corps includes the Zeppelin chasers and the dirigible balloons, called the "blimps." Service at the front calls for three different classes of men and machines. First, there are the fast, single seated scout planes whose duty it is to break up the German formations in the air and to convoy their own machines of the other classes. Then there are the reconnaissance machines, seating pilot and observer, who sail over the enemy lines to obtain what knowledge they can of enemy doings. Also there are the artillery directors, who hover over the enemy trenches, directing the fire of their own guns and noting the effect of their shells. This news they communicate to the gunners by means of wireless mounted on the planes. Bombing Hun trenches and strongholds requires the services of still another type of machine, which, however, is not radically different from that used in reconnaissance work.

A new field that has been found for the versatile flying corps is accompanying the infantry of its own army and attacking the enemy infantry by flying low over their trenches and spraying them with machine-gun fire. This sort of work is extremely effective against the new type of fighting which the Germans have adopted of fortifying and occupying shell-holes. These places are veritable death-traps for the infantry, but the aviators can dispose of their

occupants with comparative safety. Lieutenant-Colonel Rees then described the different types of machines at the front. He prefaced his remarks by stating that in the earlier part of the war it was the custom for each man to go out by himself and fight single-handed any enemy machine he happened to meet. Now, however, both sides fight in regular formation, many machines maneuvering together at the same time. Each squadron of the fighting class stays out about three hours a day. They have light fast machines which can travel at 130 miles an hour MISS A. I. DARLING Herrick's Theatre a day. They have light fast machines and can climb 15,000 feet in fifteen minutes. Fighting is done at even higher altitudes than this, 25,000 feet, however, being probably as high as any machines have ever gone,

NOTICE

Two cuff buttons found after Show Smoker in Walker Memorial on October 25. Apply to L. Winant at Tech Office.

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